

Patent
Attorney Docket No. 007198-552

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Patent Application of
Lixi Huang et al.

Application No.: 10/697,493

Filing Date: October 31, 2003

Title: METHODS FOR DESIGNING A CHAMBER TO REDUCE NOISE IN A DUCT

Group Art Unit: 2857

Examiner: Unassigned

Confirmation No.: 7704

**FIRST
INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is a **FIRST** Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

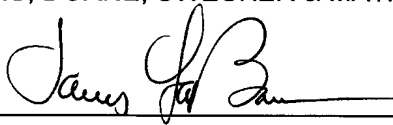
- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge _____ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of _____ is enclosed for the fee due.
- ☐ Charge _____ to credit card. Form PTO-2038 is attached.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620

By 
James A. LaBarre
Registration No. 28,632

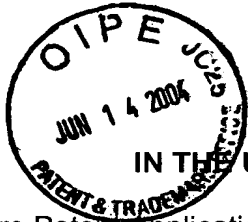
Date: June 14, 2004

BURNS DOANE

BURNS DOANE SWECKER & MATHIS LLP
INTELLECTUAL PROPERTY LAW

**FIRST
INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

(4/04)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Lixi Huang et al.

Application No.: 10/697,493

Filed: October 31, 2003

For: METHODS FOR DESIGNING A
CHAMBER TO REDUCE NOISE IN A
DUCT

Group Art Unit: 2857

Examiner: Unassigned

Confirmation No.: 7704

FIRST INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

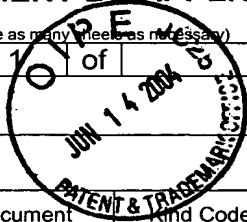
Date June 14, 2004

By:

James A. LaBarre
Registration No. 28,632

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620

Substitute for form 1449A/PTO & 1449B/PTO		Complete if Known	
FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/697,493
		Filing Date	October 31, 2003
		First Named Inventor	Lixi Huang et al.
		Examiner Name	Unassigned
		Attorney Docket Number	007198-552
Sheet	1 of 1		



U.S. PATENT DOCUMENTS				
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation	
					Yes	No

NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	J. KANG ET AL., "Predicting the Absorption of Open weave Textiles and Micro-Perforated Membranes Backed by an Air Space", Journal of Sound and Vibration, 1999, pgs. 905-920, Vol. 220, No. 5, Academic Press
	W. FROMMHOLD ET AL., "Acoustic Performance of Membrane Absorbers", Journal of Sound and Vibration, 1994, pgs. 621-636, Vol. 170, No. 5, Academic Press Limited
	K.V. HOROSHENKOV ET AL., "A Method to Calculate the Acoustic Response of a Thin, Baffled, Simply Supported Poroelastic Plate", J. Acoust. Soc. Am., 2001, pgs. 904-917, Vol. 110, No. 2, Acoustical Society of America
	F. P. MECHEL, "Panel Absorber", Journal of Sound and Vibration, 2001, pgs. 43-70, Vol. 248, No. 1, Academic Press
	RICHARD H. LYON, "Noise Reduction of Rectangular Enclosures with One Flexible Wall", Journal of the Acoustical Society of America, 1963, pgs. 1791-1797, Vol. 35, No. 11, Acoustical Society of America
	A. J. PRETLOVE, "Free Vibrations of a Rectangular Panel Backed by a Closed Rectangular Cavity", Journal of Sound Vibrations, 1965, pgs 197-209, Vol. 2, No. 3,
	R. W. GUY, "The Response of a Cavity Backed Panel to External Airborne Excitation: A General Analysis", J. Acoust. Soc. Am., 1979, pgs. 719-731, Vol. 65, No. 3, Acoustical Society of America
	JIE PAN ET AL., "The Effect of Fluid-Structural Coupling on Sound Waves in an Enclosure-Theoretical Part", J. Acoust. Soc. Am., 1990, pgs. 691-707, Vol. 87, No. 2, Acoustical Society of America
	K.S. SUM ET AL., "A Study of the Medium Frequency Response of Sound Field in a Panel-Cavity System", J. Acoust. Soc. Am., 1998, pgs. 1510-1519, Vol. 103, No. 3, Acoustical Society of America
	L. CHENG, "Fluid-Structural Coupling of a Plate-Ended Cylindrical Shell: Vibration and Internal Sound Field", Journal of Sound and Vibration, 1994, pgs. 641-654, Vol. 174, No. 5, Academic Press Limited
	E.H.DOWELL ET AL., "The Effect of a Cavity on Panel Vibration", AIAA Journal, 1963, pgs. 476-477, Vol. 1, No. 2,
	E. H. DOWELL ET AL., "Acoustoelasticity: General Theory, Acoustic Natural Modes and Forced Response to Sinusoidal Excitation, Including Comparisons with Experiment", Journal of Sound and Vibration, 1977, pgs. 519-542, Vol. 52, No. 4,

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.
VA 196140.1